

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

G2EA
Revision 4
K & L Soaring, LLC
SGS 2-33
SGS 2-33A
SGS 2-33AK
November 29, 2010

GLIDER DATA SHEET NO. G2EA

This data sheet which is a part of type certificate No. G2EA prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder K & L Soaring, LLC
5996 State Route 224
Cayuta, New York 14824

Type Certificate Holder Record Schweizer Aircraft Corporation
County Airport
Elmira, New York 14902

I - Model SGS 2-33, 2 PCLM, Approved February 10, 1967; Model SGS 2-33A, 2 PCLM, Approved March 7, 1968; Model SGS 2-33AK, 2 PCLM, Approved April 19, 1973. Model SGS 2-33A same as SGS 2-33 except for larger rudder with aerodynamic balance; Model SGS 2-33AK is same as Model SGS 2-33A constructed from a kit (see Note 4 for eligibility requirements)

Type	Class II, Utility			
Airspeed limits (CAS)	Vne-Glide or dive		98 m.p.h.	
	Vta-Airplane tow		98 m.p.h.	
	Vtaw-Auto-winch tow		69 m.p.h.	
C.G. range	(+11.9) to (+19.8) (Fuselage Sta. 78.2 to 86.1)			
Maximum weight	1040 lb.			
No. seats	2 (1 at -23) (1 at +8)			
Baggage	None			
Control surface movements	Elevator	Up 23°	Down 23°	Limits ± 2° ± 2° ± 2° ± 5°
	Rudder	Left 30°	Right 30°	
	Aileron	Up 38°	Down 18°	
	Dive Brakes	Top Up 85°	Bot. Down 75°	
Serial nos. eligible	1 and up			

Specifications Pertinent to All Models

Datum	Wing leading edge at root (Fuselage Sta. 66.3)
M.A.C.	53.54 in. (L.E. of M.A.C. 2.35 in. aft of wing leading edge at root)
Leveling means	Top of upper longeron aft of wing.

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Certification basis	FAR 21 and Basic Glider Criteria Handbook, 1962. Date of Application for Type Certificate April 1, 1966. Type Certificate No. G2EA issued February 10, 1967.
Production basis	None
Equipment:	The basic equipment as prescribed in the applicable airworthiness regulations (See Certification basis) must be installed in the aircraft for certification.

NOTE 1. Suitable placards to cover the various pilot and passenger weights must be installed in full view of the pilot as determined from the manufacturer's weight and balance report.

NOTE 2. The following placards must be installed in full view of the pilot:

- (a) "Solo front seat only."
- (b) "Max. glide or dive" 98 m.p.h.
Max. aero tow 98 m.p.h.
Max. auto-winch tow 69 m.p.h.

NOTE 3. Approved safety belt and shoulder harness required for each occupant.

NOTE 4. Each Model SGS 2-33A glider assembled from a kit is designated Model SGS-2-33AK. These K models will be eligible for an airworthiness certificate when accompanied by an affidavit certifying that the glider is constructed in exact accordance with the approved drawings and manual, and that the parts and materials furnished by the manufacturer in the kit have been used; and further when the following inspections have been satisfactorily passed:

- (a) An inspection for workmanship, materials, and conformity before any covering is applied. (All woodwork may be sealed.)
- (b) A final inspection of the completed glider.
- (c) Check of flight characteristics.

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